Memorandum to: From: Subject: Date: Vice President for Research Institutional Animal Care and Use Committee Semiannual Report of the Program Review and Facility Inspection June 16, 2020

This report summarizes the IACUC's results of its most recent program review and facility inspection, as required by the Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (Policy), Section IV.B.1.-3., the *Guide for the Care and Use of Laboratory Animals* (*Guide*), and the Animal Welfare Act (AWA) regulations, as applicable. Submission of semiannual reports to the Institutional Official is a condition of this institution's Animal Welfare Assurance with the NIH Office of Laboratory Animal Welfare (OLAW).

Since the last review, the following changes have occurred in the institution's program for animal care and use (PHS Policy <u>IV.A.1.a.-i.</u>): [*optional*]

None

I. Description of the Nature and Extent of the Institution's Adherence to the PHS Policy, the *Guide*, and the AWA

Departures from the PHS Policy, the *Guide*, and the AWA. Select A or B:

- [] A. There were no departures during this reporting period.
- [x] B. The following departures have been reviewed and approved by the IACUC: [*include reason for each departure*]

Food Restriction or Regulation:

- Each shark will be fasted twice during the duration of the study (once prior to each experimental meal). Fasting is required in order to be sure that all previously ingested materials have cleared the digestive tract.
- In the T and Barnes maze paradigms, food restriction will be enforced in order to motivate mice to perform a novel or learned task. We will use mice only 36 weeks or older since food restriction in mice younger than 14 weeks may affect their health and their minimum growth requirements. In this study, a 12-hour deprivation of food for 12 days (with ad lib water) will achieve our scientific objectives. After 12-hour deprivation, mice are fed ad lib food and water. During the food restriction, mice will be monitored daily for their changes in weight and behavior and recorded accordingly. From our prior similar experience, a 12-hour restriction of food for 12 days does not lead to the loss of weight by more than 10%.
- Fish will be fasted for 24 hours prior to the start of the experiment to eliminate digestive processes that may effect oxygen measures.

Non-Standard Caging:

- The rat water intake and urine production will be monitored as a key physiological outcome of the study. The animals will be housed in commercially available metabolic cages (Allentown Co.) consisting of course wire-flooring, under which a funnel is placed that narrows to a fine mesh filter that allows urine to pass but not fecal material. This funnel empties onto a digital scale (Sartorius Co.) that is connected to the PowerLab data acquisition system, allowing the lab to monitor voided volume concurrently with bladder pressure.
- Mice will be kept in cages for 24 hour periods to collect the 24 h samples. These timepoints have been shown to be sufficient for the formation, and repair, of benzene-induced DNA damage.

Euthanasia Method:

• According to the "Guidelines for Use of Zebrafish in the NIH Intramural Research Program", for zebrafish 4-7 days post-fertilization (dpf) euthanasia can be performed by using addition of bleach solution (sodium hypochlorite 6.15%) to the culture system water at 1 part bleach to 5 parts water. They should remain in this solution at least five minutes prior to disposal to ensure death. As detailed in the document in the scientific background section, pain perception has not developed at these earlier stages so this is not considered a painful procedure.

Social Housing:

- Mice (usually male) may be singly housed if they are fighting with their cage mate and causing physical harm. In addition, single housing may occur in a litter at weaning if there is only one pup of a sex in the litter. In addition, because we use each litter as an experimental unit, female mice that have been bred may also be individually housed prior to birth in order to track individual litters for future studies.
- Animals will be recorded using a wireless system. These epileptic rats are more aggressive than normal rats. Animal fighting might compromise not only animal health due to the implanted device but also the device itself. Single housing will also reduce signal interference.
- Following surgery rats will be singly-housed because the headstage implants can be damaged by the housing mate. This can result in distress and injury to the rat with the headstage, and result in damage to the headstage such that it provides unreliable data. This is a standard practice in these types of experiments in the field. Our rats interact with an experimenter and perform behavioral experiments frequently (usually daily). Using this approach, we do not see any overt signs of chronic stress, and our rats perform behavior actively.
- Animals will be housed in metabolic cages following surgical intervention. Because we require measurement of fluid intake and urine output we must house all animals individually to ensure we know which animal is the source of the urine excretion.
- Male and female mice will be kept in separate cages until mice become sexually mature i.e. until they are six to eight weeks old. To keep them ready for the breeding.
- Mice will be kept in single for more than > 90 days. We will wait for the mice to get mature and produce excessive amyloid production and plaques formation.
- Aggressive males need to be housed separately to prevent injury and/or death of cage mates. Reintroduction of a post-surgery animal to it's cage mates may result in injuries at the surgery site, prolonging the recovery.
- Male breeders and those used for the experiments will be house singly if they fight.
- The animals will be housed separately, when the parameters related to metabolism (water or food consumption) should be monitored individually, after surgery recovery, or if males are fighting.
- In order to recover from surgery. Longer periods of 2 to 4 weeks will be to recover from illness, if it occurs.
- Some rats may need to be removed from pair housing after incomplete spinal cord injury because of medical necessity.
- Males that have been used as breeders will be housed singly, because they will kill each other.
- Animals exhibiting signs of illness will be removed from the general population and placed in isolation until disease treatment is complete.
- It is customary for this species and the type of cages available at FIU ACF that rabbits are single housed. The rabbits will have permanent visual and olphactory contact with other animals housed in the same secondary enclosure.
- Will be kept in this setting only when a pair is not available. For example, rat will be single-housed after the companion rat is not returned to cage following non-survival surgery. Rat will be remain single-housed until the next experiment.
- Male mice will be housed separately, after they have been subjected to breeding to avoid injury from co-housing.
- When females are pregnant or aggressive males are fighting
- Sick and/or overly stressed fish will be isolated until they are ready to be re-introduced to the group. Fish may also be isolated for acclimation prior to a project or for a short time during a behavior test, but will be returned to a group setting immediately following testing. Sick and/or overly stressed fish need to be kept in quarantine until recovered. Some studies of behavior require fish to be in isolation for behavioral observation.
- Only for adult aggressive males.
- Experimental procedure requires control of diet and individual identification, which is best done with single or paired housing.

Environmental Enrichment:

• Environmental enrichment cannot be used in the husbandry of these fish due to the nature of the

toxicological studies. Contaminants and pollutants are being studied and by adding enrichment such as pvc pipes, structures, plants etc. We cannot account for these items potentially leeching any contaminants into the water of the holding tanks.

Non-Pharmaceutical Grade Drug/Chemical(s):

- At this time the following drugs are not available in USP form that are necessary for the laboratory's experiments: pancuronium bromide, 2-Methyl-6-(phenylethynyl)pyridine (MPEP), APV, cyclopiazonic acid (CPA), LY341495, AM251, tACPD and CGP52432. The lack of pharmaceutical grade available drugs has required that we purchase the purest form of the required compound available. Depending on the experimental need for the compound, the drug will reconstituted under sterile conditions, or filtered (using a 0.2um pore) to ensure sterility into a sterile bottle. Expiration of reconstituted compounds will be 30 days from the date the compound is made and will be marked on the bottle, along with the name of the compound, the concentration of the compound, and the person's name who made the solution.
- There is no commercially available pharmaceutical-grade LPS. Research-grade LPS in sterile saline will be prepared under sterile conditions on the same morning of the day of administration in quantities sufficient for the proposed experiment. LPS is soluble in water, for the proposed concentration (referenced in literature for safe use) there should be no sediment left. It is not recommended to filter the final solution through membranes due to the adhesion of LPS to a membrane surface. The remaining solution of LPS in saline shall be disposed as hazardous waste and not stored.
- Although the use of sodium pentobarbital was previously approved for induction of anesthesia in combination with isoflurane for anesthesia maintenance, it has come to our attention that a pharmaceutical grade (Nembutal[©]) is no longer available for research and veterinary use. Therefore, we are proposing to use non-pharmaceutical grade sodium pentobarbital in combination with isoflurane as previously described. One of the main aims of the proposed research is to perform sciatic nerve stimulation and recording. One of the ways for us to check to ensure that we are, in fact, stimulating the nerve is to observe muscle twitches in the leg following stimulation. Sodium pentobarbital is the drug of choice to induce anesthesia because of its mechanism of action; it sedates through central GABAA receptors without affecting motor function. Ketamine, and its pairing with xylazine, are possible alternatives to pentobarbital and are used widely in rodent research. However, we would prefer not to use ketamine alone or in combination with xylazine for the following reasons: (1) ketamine alone may cause spontaneous limb movements and increased muscle tone which could confound our results when we are looking for muscle twitches following nerve stimulation; (2) muscle relaxation is an effect of xylazine, and it may attenuate the muscle responses we need to observe following nerve stimulation. Urethane - Will be used for RATS only. Urethane approrpiate for our purposes is only supplied in powder/crystalline form. Will use the attached Urathane SOP for preparing Urethane solution. Briefly, we must mix the drug into solution ourselves and it will not be pharmaceutical grade. Urethane is not used as an anesthetic in humans, nor is it used in survival procedures for animals.

II. Deficiencies in the Institution's Animal Care and Use Program

Animal Care and Use Program Review Date(s): 6/11/20 Select A or B:

- [X] A. There were no deficiencies in the program during this reporting period.
- B. The following deficiencies have been identified: [describe each deficiency, identify each deficiency as either minor or significant, and provide a reasonable and specific plan and schedule for the correction of each deficiency, deficiencies may be recorded on a separate table and attached, the last page of OLAW's Sample Semiannual Program Review and Facility Inspection Checklist provides a sample table]

None

III. Deficiencies in the Institution's Animal Facility

Animal Facility Inspection Date(s): 05/28/20 – 06/04/20 Select A or B:

[] A. There were no deficiencies in the animal facility during this reporting period.

v12/1/2011 Obtained by Rise for Animals. Uploaded 08/20/2020

[x] B. The following deficiencies have been identified: [describe each deficiency, identify each deficiency as either minor or significant, and provide a reasonable and specific plan and schedule for the correction of each deficiency, deficiencies may be recorded on a separate table and attached, the last page of OLAW's Sample Semiannual Program Review and Facility Inspection Checklist provides a sample table]

Please see attached table – Appendix 1.

IV. Minority Views

Select A or B:

[x] A. No minority views were submitted or expressed.
[] B. The following minority views were expressed: [*insert minority views here or attach*] None

V. Status of AAALAC Accreditation [identify accredited facilities, if applicable]

Fully Accredited.

VI. Signatures [signatures of a majority of the IACUC members]

Names of IACUC Members	Signatures

Appendix 1 Deficiencies log for June 16, 2020 Meeting

Deficiency category	Location	Deficiency and Plan for Correction	Responsible Person	Correction Schedule and Interim Status	Date Completed
М		Deficiency: • Contact information on the Animal Bite signage throughout the facility has outdated information (which is no longer active) for Plan for Correction: • Signage will be updated to display accurate information.		Needs to be completed by 6/12/20. Email sent to PI on 6/2/20	Completed 6/12/20
M		Deficiency: • Emergency Exit door was blocked with racks. Plan for Correction: • Clear this area of any obstruction.		Needs to be completed by 6/12/20. Email sent to PI on 6/2/20	Completed 6/2/20
M		 Deficiency: The large freezer did not display signage of the contents. Image is listed as the point of contact on the signage listed on the fridges/freezers; however, he is no longer at FIU 		Needs to be completed by 6/19/20. Email sent to PI on 6/10/20	Completed 6/19/20
		Plan for Correction:			

Date of Inspection: 5/28/20 – MMC Group 1

	 Signage needs to be added to reflect the contents of the freezer. Update to reflect the appropriate point of contact. 		
М	 Deficiency: The fridge did not display signage of the contents. Four (4) CO2 tanks were directly on the floor. CO2 signage is outdated and incorrect. Fabric and additional articles are loose on the shelves. 	Needs to be completed by 6/12/20. Email sent to PI on 6/2/20	Completed 6/12/20
	 Plan for Correction: Signage will to be added to the front of the fridge, to reflect its contents. The tanks need to be properly secured. CO2 signage needs to be updated to reflect latest AVMA guidelines. All loose items should be placed in sealed plastic tubs. 		
M	Deficiency: • Betagen topical spray is expired (4/20) Plan for Correction: • Properly dispose of the expired bottle and its contents.	Needs to be completed by 6/12/20. Email sent to PI on 6/2/20	Completed 6/2/20
M	 Deficiency: Main door to the surgical suite was propped open. Cabinet behind the main door had debris (gloves, paper towels) underneath it. 	Needs to be completed by 6/12/20.	Completed 6/2/20

M Deficiency: Needs to b • The room has metabolic cages towards the front of the room and a large amount of behavioral boxes towards the back. It is unclear who these belong to and if part of the same study. • PI contact information for the room is missing, along with Animal Welfare and Animal Bites signage Email sent PI on 6/2/ Plan for Correction: • Proper identification need to be displayed on the cages and behavioral boxes • PI contact information needs to be displayed, along with the signage indicated. Needs to b completed 6/12/20. M Deficiency: • The door to this room does not close fully. Needs to b completed 6/12/20. M Deficiency: • The door must be fixed, so it properly closes. Needs to b completed 6/12/20. M Deficiency: • The door must be fixed, so it properly closes. Needs to b completed 6/12/20.	o 0	Email sent to PI on 6/2/20	 Plan for Correction: Given that controlled substances are kept in this area, this room must be maintained closed and secured. The debris needs to be disposed of properly. 	
M Deficiency: Needs to b • The door to this room does not close fully. • The door to this room does not close fully. • Operation (0,12,20, 0,12,20,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	o 0	Needs to be completed by 6/12/20. Email sent to PI on 6/2/20	 Deficiency: The room has metabolic cages towards the front of the room and a large amount of behavioral boxes towards the back. It is unclear who these belong to and if part of the same study. PI contact information for the room is missing, along with Animal Welfare and Animal Bites signage Plan for Correction: Proper identification need to be displayed on the cages and behavioral boxes PI contact information needs to be displayed, along with the signage indicated. 	M
M Deficiency: Needs to b	FIU Facilities was contacted to repair door. 6/12/20 0	Needs to be completed by 6/12/20. Email sent to PI on 6/2/20	 Deficiency: The door to this room does not close fully. Plan for Correction: The door must be fixed, so it properly closes. 	M M Votained by Rise for A
Completed information is missing from the room completed 6/12/20.	Completed by 6/12/20	Needs to be completed by 6/12/20.	Deficiency: Output for the room contact sheet. Plan for Correction:	M M nimals. Uploade

	• Information needs to be added to contact sheet.	Email sent to PI on 6/2/20	
M	 Deficiency: There was a cardboard box with many loose items (may belong to many belong the many belong to many belong the many belong the many belong the many belong the many belong to many belong to many belong the many belong the many belong to many belong the many belong the many belong to many belong the many belong to many belong to many belong the many belong to many belong the many belong to many b	Needs to be completed by 6/12/20. Email sent to PI on 6/2/20	Completed 6/12/20
	 Deficiency: Two (2) cages appear overcrowded. Plan for Correction: Cages need to be monitored and separate animals to resolve overcrowding. 	Needs to be completed by 6/12/20. Email sent to PI on 6/2/20	Completed 6/4/2020
M M The for Animals Up	 Deficiency: Missing Animal Bite signage. The following chemicals/drugs are on the shelf: Glycopyrrolate – anticholinergics, Enrofloxacin (Baytril), Racellet pellets and ephinephrin Plan for Correction: Animal Bite signage will be displayed. 	Needs to be completed by 6/12/20. Email sent to PI on 6/2/20	Completed 6/12/20

	 • Drugs must be stored appropriately, especially if they are controlled substances.		
М	 <u>Deficiency</u>: 2 Cages appear overcrowded (8186 and 16481) Plan for Correction: 	Needs to be completed by 6/12/20.	Completed 6/4/20
	Cages need to be monitored and separate animals to resolve overcrowding.	Email sent to PI on 6/3/20	

Date of Inspection: 5/28/2020 – MMC Group 2

Deficiency category	Location	Deficiency and Plan for Correction	Responsible Person	Correction Schedule and Interim Status	Date Completed
М	A 7	 Deficiency: Deficiency: Working in lab is not listed on protocol, but if working with animal tissues, IACUC approval is required. Plan for Correction: PI must add associate to existing protocol or new exempt protocol must be submitted for animal tissue work. 		Needs to be completed by 6/12/20. Email sent to PI on 6/2/20	Completed 6/12/20
M		Deficiency: • Displayed memorandum on door is expired. Plan for Correction: • Display current/approved memorandum.		Needs to be completed by 6/12/20.	Completed 6/12/20

Retrieved from Animal Research Laboratory Overview (ARLO)

		Email sent to PI on 6/2/20	
М	 Deficiency: Displayed BSL2 approvals are expired. Animal welfare poster is outdated. 	Needs to be completed by 6/12/20.	Completed 6/12/20
	 Plan for Correction: Display current BSL2 approvals. Current Animal Welfare poster will be displayed. 	Email sent to PI on 6/2/20	

Date of Inspection: 6/4/20 – Members in Attendance:

M	 Deficiency: Soiled Styrofoam being used for perfusion was located in the sink. Bottle of PFA not properly labeled. In addition, hood or respirators were not located in this room. Proper PFA disposal container not found. 	Needs to be completed by 6/15/20 Email sent to PI on 6/4/20	Completed 6/15/20.
ined by Rise for Animals. Upload	 Plan for Correction: The soiled Styrofoam will be properly disposed of and perfusions will be performed in a more acceptable manner. The PFA bottle will be properly labeled and all PFA experiments must be performed in a designated area where a hood is available. In addition, the PIs will need to amend their protocols to properly list PFA as a hazardous agent. Biowaste containers will be added to the room. 		
ad 08/20/2020			

EH&S Concern:		
EH&S is working on getting all doors properly labeled with		
appropriate signage. They will work on having the		
emergency eyewash and showers certified. The fire		
extinguishers will be added to the inspection schedule. EH&S		
will work with Emergency Management to get emergency		
phones installed and signage displayed.		

*Non-voting, administrative member

I. Semiannual Program Review Checklist ⁱ

titutional Policies and Responsibilities

Date:

1.	Animal Care and Use Program NEW	Α	*	М	S	С	NA
	 Responsibility for animal well-being is assumed by all members of the program (Gup 1) [must] 	ide,					
	 IO has authority to allocate needed resources (Guide, p 13) 						
	 Resources necessary to manage program of veterinary care are provided (Guide, p [must] 	14)					
	 Sufficient resources are available to manage the program, including training of personnel in accord with regulations and the <i>Guide</i> (<i>Guide</i>, pp 11, 15) 						
	Program needs are regularly communicated to IO by AV and/or IACUC (Guide, p 13)	3)					
	 Responsibilities for daily animal care and facility management are assigned to specindividual(s) when a full-time veterinarian is not available on site (Guide, p 14) [minimum] 	ific ust1					
	 Inter-institutional collaborations are described in formal written agreements (Guide 15) 	, <u>p</u>		(
	 Written agreements address responsibilities, animal ownership, and IACUC oversigl (Guide, p 15) 	ht	1				
2.	Disaster Planning and Emergency Preparedness NEW	A	*	м	s	С	NA
	 Disaster plans for each facility to include satellite locations are in place (Guide, <u>p 31</u> 75) inust 	5, p					
	Plans include provisions for euthanasia (<i>Guide</i> , p.35) [must]						
	• Plans include triage plans to meet institutional and investigators' needs (Guide, p 3	5)					
	 Plans define actions to prevent animal injury or death due to HVAC or other failures (Guide, p 35) 	5					
	 Plans describe preservation of critical or irreplaceable animals (Guide, p 35) 	1					
	Plans include essential personnel and their training (Guide, p 35)						1
	 Animal facility plans are approved by the institution and incorporated into overall response plan (Guide, p 35) 		1				
	 Law enforcement and emergency personnel are provided a copy and integration wir overall plan is in place (Guide, p.35) 	th					
3.		A	*	м	S	С	NA
	 Meets as necessary to fulfill responsibilities (Guide, p.25) [musti] 	1					
	 IACUC Members named in protocols or with conflicts recuse themselves from proto- decisions (Guide, p.26) [must] 	col					
	• Continuing IACUC oversight after initial protocol approval is in place (<i>Guide</i> , p <u>33</u>)	1	1				
	• IACUC evaluates the effectiveness of training programs (Guide, p 15)	TY					
4.	IACUC Protocol Review - Special Considerations	A	*	м	s	с	NA
	 Humane endpoints are established for studies that involve tumor models, infectious diseases, vaccine challenge, pain modeling, trauma, production of monoclonal antibodies, assessment of toxicologic effects, organ or system failure, and models or cardiovascular shock (<i>Guide</i>, p 27) 	5 of					
1	• For pilot studies, a system to communicate with the IACUC is in place (Guide, p 28)					
	 For genetically modified animals, enhanced monitoring and reporting is in place (Guide, <u>p 28)</u> 						
	• Restraint devices are justified in the animal use protocols (Guide, p 29) [must]						
	Alternatives to physical restraint are considered (Guide, p 29)						
	• Period of restraint is the minimum to meet scientific objectives (Guide, p 29)	1.I					
	• Training of animals to adapt to restraint is provided (Guide, p 29)						
	 Animals that fail to adapt are removed from study (Guide, p 29) 						
	• Appropriate observation intervals of restrained animals are provided (Guide, p 29)						
	 Veterinary care is provided if lesions or illness result from restraint (Guide, p 30) [must] 	1					

							_
6	IA	CUC Training NEW	A *	Μ	S	С	NA
	•	Requests for exemptions from major survival surgical procedure restrictions are made to USDA/APHIS ^v (<i>Guide</i> , <u>p_30</u>)	1				
	•	Policies are in place for special procedures (e.g., genetically modified animals, restraint, multiple survival surgery, food and fluid regulation, field investigations, agricultural animals) (<i>Guide</i> , <u>p 27-32</u>)					
	•	Procedures are in place for review and approval of significant changes to approved activities (PHS Policy, $IV.B.$)					
	•	Procedures are in place for review, approval, and suspension of animal activities ^{iv} (PHS Policy, <u>IV.B.</u>)	-				
	•	Reviews and investigates concerns about animal care and use at institution ⁱⁱⁱ (PHS Policy, <u>IV.B.</u>)					
	•	Methods for reporting and investigating animal welfare concerns are in place (<i>Guide</i> , p 23) must					
	•	IACUC organizationally reports to the Institutional Official (PHS Policy, IV.A.1.b.)					
	•	(PHS Policy, <u>IV.B.</u>) Conducts semiannual inspections of institutional animal facilities (PHS Policy, <u>IV.B.</u>)	-			_	
	•	are provided (<i>Guide</i> , <u>p</u> <u>14</u>) IACUC conducts semiannual evaluations of institutional animal care and use program	-				
-	•	animal user (<i>Guide</i> , <u>p 24</u>)" IACUC authority and resources for oversight and evaluation of institution's program	-			-	-
	•	Members include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab					
	•	IACUC is comprised of at least 5 members, appointed by CEO (PHS Policy, IV.A.3.)					
5.	IA	CUC Membership and Functions	A*	М	S	С	NA
	_	(Guide, <u>p. 75</u>)	3-		_		_
	•	Toe-clipping only used when no alternative, performed aseptically and with pain relief					
	•	Disposition plans are considered for species removed from the wild (<i>Guide</i> , p 32)		6			
T	•	Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area (Guide, p. 32)					
	•	Non-pharmaceutical grade chemicals are described, justified, and approved by IACUC (Guide, p.31)					
	•	Pharmaceutical grade chemicals are used , when available, for animal-related procedures (<i>Guide</i> , p. 31)					
i -		Daily written records are maintained for food/fluid restricted animals (<i>Guide</i> , p. 31)				-	-
-	•	Body weights for food/fluid restricted animals are recorded at least weekly (<i>Guide</i> , p					
	•	Animals on food/fluid restriction are monitored to ensure nutritional needs are met (Guide, p.31)					
	•	Multiple survival procedure justifications in non-regulated species conform to regulated species standards (<i>Guide</i> , \underline{p} 30)					
	•	Major versus minor surgical procedures are evaluated on a case-by-case basis (<i>Guide</i> , p 30)					
	•	Multiple surgical procedures on a single animal are justified and outcomes evaluated (<i>Guide</i> , \underline{p} <u>30</u>)					
		(<i>Guide</i> , $p = 30$)	1		1		

ġ	IAC	JC Records and Reporting Requirements ^{vi}	A *	м	s	С	NA
-	0	Ongoing training/education (Guide, <u>p_17</u>))				
_	0	Training on how to review protocols as well as evaluate the program (Guide, $p 17$)					
	0	Training on how to inspect facilities and labs where animal use or housing occurs (Guide, <u>p 17</u>)					
	0	Training on legislation, regulations, guidelines, and policies (Guide, p 17)		-			
_	0	Formal orientation to institution's program (Guide, p 17)			2		
_	- /1			_			

7 IACUC Records and Reporting Requirements^{vi} Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)

- Submitted to IO every 6 months 0
- Compiles program review and facility inspection(s) results (includes all program 0

Semiannual Checklist

	and facility deficiencies)		1			
	 Includes minority IACUC views 					
	• Describes IACUC-approved departures from the Guide or PHS Policy and the					
	reasons for each departure ^{vii}			-		
	 Distinguishes significant from minor deficiencies 					
-	 Includes a plan and schedule for correction for each deficiency identified^{viii} 					
	Reports to OLAW (PHS Policy, IV.F.)					
	• Annual report to OLAW documents program changes, dates of the semiannual					T
	program reviews and facility inspections and includes any minority views					
	 Promptly advises OLAW of serious/ongoing Guide deviations or PHS Policy 	24				T
	noncompliance (NOT-OD-05-034)					
-	 Institute must promotly advise OLAW of any suspension of an animal activity by 			1		1
	the IACUC (NOT-OD-05-034)					
	Reports to U.S. Department of Agriculture (USDA) or Federal funding agency ^{ix}		-			-
-	 Annual report to USDA contains required information including all 		-	1	-	T
	exceptions/exemptions		P 7			
-	 Reporting mechanism to USDA is in place for IACUC-approved exceptions to the 				-	+
	regulations and standards					
_	 Reports are filed within 15 days for failures to adhere to timetable for correction of 					+
	significant deficiencies	1				
-	 Promptly reports suspensions of activities by the IACUC to USDA and any Federal 	100		1	-	-
	funding agency	1				
	Records (PHS Policy IV E)					-
-	 IACUC meeting minutes and semiannual reports to the IO are maintained for 3 	-+-	1	-		T
	Vears					
-	 Records of IACUC reviews of animal activities include all required information* 	Ŷ		-		+
-	 Records of IACUC reviews or animal derivates include an required miorimation Becords of IACUC reviews are maintained for 3 years after the completion of the 		-			+
	etudy	1				
-	is in place including backup veterinary care ^{xi}	-	_			
•	veterinary access to all animals is provided (Guide, <u>p 14</u>) [must]	-	-			-
•	animal care and use (Guide, p 14) [must]					
•	Veterinarian provides consultation when pain and distress exceeds anticipated level in protocol (<i>Guide</i> , <u>p 5</u>) [must]					
•	Veterinarian provides consultation when interventional control is not possible (<i>Guide</i> , p 5) [must]					
	If part time /consulting veterinarian, visits meet programmatic needs (Guide, p.14)					1
	Regular communication occurs between veterinarian and IACUC (Guide n 14)	1				
	Veterinarian(s) have experience and training in species used (Guide, p 15) [must]				-	-
	Veterinarian(s) have experience in facility administration/management (<i>Guide</i> , p.15)	1				1-
	verennandnig have experience in ruency duministration/management (ou/de/ <u>p.20</u>)	- 24				-
P	ersonnel Qualifications and Training	A*	M	S	С	N
	All personnel are adequately educated, trained, and/or qualified in basic principles of	-				
1	laboratory animal science. Personnel included: [must]					
-	• Veterinary/other professional staff (Guide p 15-16)	1	1			1
	 IACUC members (Guide n 17) 	-				1
-	Animal care personnel (Guide, p.16)		1-1			
	 Person chippersonner (Oulde, <u>p.10</u>) Research investigators instructors technicians trainees and students (<i>Guide</i> pp. 10) 	1				+
	16-17)					
•	Continuing education for program and research staff provided to ensure high quality					-
	care and reinforce training (Guide, pp 16-17)					
	Training is available prior to starting animal activity (Guide, p 17)					T
	Training is documented (<i>Guide</i> , p.15)	-				-
	Training program content includes: (Guide p 17)	T	13			-
_	Methods for reporting concerns (Guide n 17)	1	1		-	T
_	 Humane practices of animal care (e.g. housing, bushandry, handling) xii 	2	-			1
-	 Humane practices of animal use (8.0, research procedures use of anesthesia 		-			+
	• Humane produces of unmar use (e.g., research procedures, use of allestnesia,					1

	Personnel Security	A *	М	S	С	NA			
<u>l</u>	(Guide, p.32)	V							
-	implemented (Guide, p 23) Occupational safety and health of field studies is reviewed by OSH committee or office	7.							
	 Injuries associated with macaques are carefully evaluated and treatment 								
	 PPE is provided including gloves, arm protection, face masks, face shields, or goggles (Guide, p.21) 								
	associated with macaques (Guide, p 23)								
	 Training and implementation of precedures for bites, scratches, or injuries 				-				
	• Tuberculosis screening provided for all exposed personnel (Guide, p.23)								
•	Special precautions for personnel who work with nonhuman primates, their tissues or body fluids include:								
	p 22)	×							
•	Respiratory protection is available when performing airborne particulate work (Guide,								
•	Hearing protection is provided in high noise areas (Guide, p 22)								
•	Waste anesthetic gases are scavenged (Guide, p 21)	1							
	 If serum samples are collected, the purpose is consistent with federal and state laws (Guide, <u>p.22) [must]</u> 	6							
	local regulations (Guide, p 22) [must]								
	 Considers confidentiality and other legal factors as required by federal, state and 	-		1					
	 Promotes early diagnosis of allergies including preexisting conditions (Guide, g 22) 				-	-			
	 Procedures for reporting and treating injuries, including accidents, bites, allergies, etc. (Guide, p.23) 								
	 Zoonosis surveillance as appropriate (e.g., Q-fever, tularemia, Hantavirus, plague) (Guide, p 23) 								
	 Immunizations as appropriate (e.g., rabies, tetanus) and tests as appropriate (Guide, p 22) 								
	• Pre-employment evaluation including health history (Guide, $p 22$)								
	am for medical evaluation and preventive medicine for personnel includes:								
•	21)	1							
	agents are in place (Guide, <u>p.21)</u> Personal Protective Equipment for the work area is appropriate and available (Guide a	1		_		_			
•	Procedures for use, storage, and disposal of hazardous biologic, chemical, and physical								
•	Personal hygiene procedures are in place (e.g., work clothing, eating/drinking/smoking policies) (<i>Guide</i> , <u>p</u> 20)	-							
•	Personnel training is provided based on risk (e.g., zoonoses, hazards, personal hvgiene, special precautions, animal allergies) (Guide, <u>0</u> 20)								
	<u>(Guide, p 19)</u>								
•	Changing, washing, and showering facilities are available as appropriate (<i>Guide</i> , <u>p</u> 19)	- 11				-			
•	Program covers all personnel who work in laboratory animal facilities (Guide, p 18)								
-	Program is in place and is consistent with federal, state, and local regulations (Guide, <u>p 17)</u> [must]								
10.	Occupational Health and Safety of Personnel	A *	М	S	С	NA			
	\circ Ethics of allimat use and Three R's (Guide, <u>p 17)</u>	L£_							
	• IACUC function (<i>Guide</i> , p1/)				-				
	• Animal care and use legislation (Guide, p <u>17</u>)		1 -						
	applicable (Guide, p 20)			-					
	 Use of hazardous agents, including access to OSHA chemical hazard notices where 								
1	 Research/testing methods that minimize animal pain or distress (PHS Policy, IV(A, 1, c.) 								
_	(PHS Policy, <u>IV.A.1.g.</u>)	1				_			
	17) ^{xiii} Research/testing methods that minimize numbers necessary to obtain valid results								
	pre- and post-operative care, aseptic surgical techniques and euthanasia (Guide, p								

_	Personnel Security	A	MS	
•	Preventive measures in place include pre-employment screening, and physical and IT			
	security (Guide, p.23)	1	· · · ·	

12.	Investigating & Reporting Animal Welfare Concerns NEW	A *	М	S	С	NA
•	Methods for investigating and reporting animal welfare concerns are established (Guide, p 23) [must]					
	Reported concerns and corrective actions are documented (Guide, p 24)					
•	Mechanisms for reporting concerns are posted in facility and at applicable website with instructions (<i>Guide</i> , $p 24$)		-	-		
	 Includes multiple contacts (Guide, p 24) 		1			
	 Includes anonymity, whistle blower policy, nondiscrimination and reprisal protection (Guide, p 24) 	1×				

* A = acceptable

M = minor deficiency

S = significant deficiency (is or may be a threat to animal health or safety)

C = change in program (PHS Policy <u>IV.A.1.a.-i.</u>) (include in semiannual report to IO and in annual report to OLAW)

NA = not applicable

NOTES:

Veterinary Care

`e:

1.	Clinical Care and Management NEW	A	*	M	S	С	NA
	 Veterinary program offers high quality of care and ethical standards (<i>Guide</i>, <u>p 105</u>) [must] 	1					
	• Veterinarian provides guidance to all personnel to ensure appropriate husbandry, handling, treatment, anesthesia, analgesia, and euthanasia (<i>Guide</i> , p 106)						
	• Veterinarian provides oversight to surgery and perioperative care (<i>Guide</i> , p 106)						
	• Veterinary care program is appropriate for program requirements (<i>Guide</i> , pp 113-1	4)					-
	 Veterinarian(s) is familiar with species and use of animals and has access to medical and experimental treatment records (<i>Guide</i>, p 114) 	ıl.		T			
	Procedures to triage and prioritize incident reports are in place (Guide p 114)				1		1
	Procedures are in place to address:		_		_		
	 Problems with experiments to determine course of treatment in consultation wit investigator(<i>Guide</i>, p 114) 	h		-			1
	 Recurrent or significant health problems with the IACUC and documentation of treatments and outcomes (Guide, p 114) 						
	 Veterinary review and oversight of medical and animal use records (Guide, p 11 	5)					
	 Procedures established for timely reporting of animal injury, illness, or disease (Guid p 114) [must] 	de,					
	 Procedures established for veterinary assessment, treatment, or euthanasia (Guide, <u>114)</u> [must] 	D					
	 Veterinarian is authorized to treat, relieve pain, and/or euthanize (Guide, <u>p 114</u>) [must] 	1	1	E			
2.	Animal Procurement and Transportation/Preventive Medicine	A	*	м	s	С	NA
	Procedures for lawful animal procurement are in place (Guide, p 106) (must)						
7	 Sufficient facilities and expertise are confirmed prior to procurement (Guide o 106) 					-	
	 Procurement is linked to IACUC review and approval (Guide, p. 106) 	17					-
	Random source dogs and cats are inspected for identification (Guide n 106)		_				
-	 Population status of wildlife species is considered prior to procurement (Guide p. 10) 	5)	-		-	-	-
	 Appropriate records are maintained on animal acquisition (Guide n 106) 		-		-		
	Appropriate records are evaluated to meet program needs and quality (Guide, p. 106)		-			-	-
-	 Breeding colonies are based on need and managed to minimize numbers (Guide n 				-		-
	107)					-	-
	 Procedures for compliance with animal transportation regulations, including international requirements, are in place (<i>Guide</i>, p 107) mustile 	1					
	 Transportation is planned to ensure safety, security and minimize risk (Guide, p 107))					
	 Movement of animals is planned to minimize transit time and deliveries are planned ensure receiving personnel are available (<i>Guide</i>, pp 107-108) 	to					
	 Appropriate loading and unloading facilities are available (Guide, p 109) 						
	 Environment at receiving site is appropriate (Guide, p 109) 						
	 Policies in place on separation by species, source, and health status (Guide, pp 109, 111-112) 						
	 Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) 						
	 Quarantined animals from different shipments are handled separately or physically separated (Guide, p 110) 						
	 Procedures in place for stabilization/acclimation (Guide, pp 110-111) 						
	 Policies in place for isolation of sick animals (Guide, p 112) 			_			
	 Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation (<i>Guide</i>, <u>p 112</u>) 	1					
	 Diagnostic resources are available for preventive health program (Guide, p.112) 	1					
-	Surgery	A	*	м	S	С	NA
	 Surgical outcomes are assessed and corrective changes instituted (Guide, p 115) 						
	 Researchers have appropriate training to ensure good technique (Guide, p 115) [must] 	1					

Semiannual Checklist

•	Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, anesthetic and analgesic use, peri-operative care, recordkeeping) (Guide, p116)				
	Aseptic surgery is conducted in dedicated facilities or spaces, unless exception justified and IACUC approved (<i>Guide</i> , <u>p 116</u>)				
,	Surgical procedures including laparoscopic procedures are categorized as major or minor (<i>Guide</i> , <u>pp 117-118</u>)				
•	For nonsurvival surgery, the site is clipped, gloves are worn and instruments and area are clean (<i>Guide</i> , p 118)				
•	Aseptic technique is followed for survival surgical procedures (<i>Guide</i> , pp 118-119)			1	
•	Effective procedures for sterilizing instruments and monitoring expiration dates on sterile packs are in place (<i>Guide</i> , p 119)				
٠	Procedures for monitoring surgical anesthesia and analgesia are in place (<i>Guide</i> , <u>p</u> 119)				
•	For aquatic species, skin surfaces are kept moist during surgical procedures (<i>Guide</i> , g 119)	P			
•	Post-operative monitoring and care are provided by trained personnel and documented (e.g., thermoregulation, physiologic function, analgesia, infection, removal of skin closures) (<i>Guide</i> , pp.119-120)	1			

4. Pain, Distress, Anesthesia and Analgesia

A *	M	S	С	NA

•	Guidelines for assessment and categorization of pain, distress and animal wellbeing are provided during training (Guide, p 121)			
•	Selection of analgesics and anesthetics is based on professional veterinary judgment (<i>Guide</i> , <u>p 121</u>)			
•	Painful procedures are monitored to ensure appropriate analgesic management (<i>Guide</i> , <u>p_122</u>)			
•	Nonpharmacologic control of pain is considered as an element of postprocedural care (<i>Guide</i> , p_{122})			
•	Procedures are in place to assure antinoception before surgery begins (<i>Guide</i> , <u>p 122</u>)	-		
•	Guidelines for selection and use of analgesics and anesthetics are in place and regularly reviewed and updated (Guide, p_122)	-1		
•	Special precautions for the use of paralytics are in place to ensure anesthesia ^{xiv} (<i>Guide</i> , <u>p 123</u>)	6		

5. **Futhanasia**

Eulianasia			3	C	INA
 Methods are consistent with AVMA Guidelines on Euthanasia unless approved by the IACUC (Guide, <u>p 123</u>) 					
 Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species (<i>Guide</i>, <u>pp 123-124</u>) 					
 Training is provided on appropriate methods for each species and considers psychological stress to personnel (<i>Guide</i>, <u>p 124</u>) 	1				
 Procedures and training are in place to ensure death is confirmed (<i>Guide</i>, <u>p 124</u>) [must] 	1				
Drug Storage and Control NEW	۸*	м	5	C	NA

6. Drug Storage and Control NEW

bidg Stoldge and control	~	 9	-	117
 Program complies with federal regulations for human and veterinary drugs(Guide, p 115) [must] 				
 Drug records and storage procedures are reviewed during facility inspections (Guide, p 115) 	1			
 Procedures are in place to ensure analgesics and anesthetics are used within expiration date (<i>Guide</i>, <u>p 122</u>) [must] 	1			
 Anesthetics and analgesics are acquired, stored, and their use and disposal are recorded legally and safely (<i>Guide</i>, p 122) 				

A = acceptable

M = minor deficiency

S = significant deficiency (is or may be a threat to animal health or safety)

C = change in program (PHS Policy <u>IV.A.1.a.-i.</u>) (include in semiannual report to IO and in annual report to OLAW)

NA = not applicable

NOTES:

Semiannual Checklist

v3/8/2012

Obtained by Rise for Animals. Uploaded 08/20/2020

17 2020

Inspection Guide

LABORATORY semi-annual IACUC inspections

yes	no	nya	Record-keeping
			Protocols and SOPs are current and available to view
ή			Records of anesthesia, surgery, post-op are current and available to view
			Contact information for veterinary staff is posted or accessible
પ			Laboratory Training Notebook is current and available to view
yes	no	n/a	General lab care / housekeeping
1			Animal use areas are generally clean and well-organized
			Animal procedure areas are clean with sanitizable surfaces
			Chairs used in procedure areas are sanitizable (not cloth) or have covers
<u> </u>		<u>Z</u>	Animal feed & bedding are stored in closed containers with labels indicating exp. dates
		X	Dirty cages and dirty bedding are not in procedure areas
Ļ			Sanitizing solutions are appropriate for use; clear labeling indicates mix/fill date
		The second	
yes	no	n/a	Drugs and anesthesia
ļ			Controlled substances are appropriately secured
			Controlled substances use log is up to date and available to view
			Drugs & pharmaceuticals are current with labels indicating expiration dates
$\overline{\mathbf{V}}$			Anesthesia machines have been calibrated within last 12 months
			F/Air canister weights are regularly recorded; vapor recapture system is functional
ď,			CO ₂ cylinders are secured and have flow meters & instructions for use
\Box'			Guillotines are clean and sharp with current log of testing & maintenance

IACUC Lab Guide 2016.docx

Page 1 of 2

Obtained by Rise for Animals. Uploaded 08/20/2020

Retrieved from Animal Research Laboratory Overview (ARLO)



yes	no	n/a	Surgery and procedure areas
		ф	Surfaces are sanitizable and materials needed for sanitation or disinfection are available
		ф	Sanitation schedule is rigorous and performance is documented
		Ļ	Storage of non-surgical supplies is disallowed in surgery or procedure area
		\square	Peri-op & post-op care is documented as per PI protocol (see also Recordkeeping)
		Ĺ	Room temp & humidity levels are recorded and controlled within limits (if applicable)
yes	no	II/a	Salety
1			Human food is kept out of lab areas and lab refrigerators
L L	Ω.		Hoods used for animals are uncluttered and have current certification
þ			Sharps containers are not overfull and discarded needles are not recapped
Ļ			Needles, injection ports and other sharps are properly stored
Ļ.			PPE / Personal protection equipment is available, appropriate and used
<u> </u>			Chemicals used in animals are clearly labeled with expiration dates
			Eye wash stations are tested (flushed) weekly and test log is posted
			Cardboard boxes, including broken glass boxes, are stored off the floor
Ē,			Signage for any biological, chemical, radiation or other hazards is posted
\mathbf{V}			Animal Contact Risk Questionnaire is complete & current for all lab members

Some questions commonly asked by the inspection team (and by USDA or NIH visitors):

- Do you have a copy of your protocol here? Do your lab members read protocols? Documented?
- Could you explain how you euthanize your animals? How do you verify death?
- Do you perform procedures or surgeries? Could you describe these? What is the mortality rate?
- What kind of post-op care and monitoring do you provide? Can we see the records?
- If a procedure or surgery did not go well, what would you do? Who would you contact?
- Aquatic animals: how do you monitor water quality and temperature? Can we view your records?
- Where do you keep your drugs or controlled substances (used in animals)? Can we see these?
- Do you feel like you have the support you need to do your animal work?
- Is there anything you'd like to ask us or to convey to the committee?

IACUC Lab Guide 2016.docx

Page 2 of 2

Obtained by Rise for Animals. Uploaded 08/20/2020 Retrieved from Animal Research Laboratory Overview (ARLO)

Iı	nspe	ectio	2020 FACILITY
FA	CILIT	Y and	HOUSING semi-annual IACUC inspections
Pack		042. 10 ³¹	En ste kline Eleste privés gry opyrot (Especie Eleste grif gry digraditiones
ye	s no	n/a	Facility-Wide
K			Contact information for veterinary staff is posted and current Sugrance Lists TK. CH.H.
Æ			Whistle-Blower Policy is posted and current
Ĩ			Surfaces are sanitizable, E.G. no peeling paint, chips, cracks, rust, cloth, unsealed wood
			Sanitizing solutions are appropriate for use; clear labeling indicates mix/fill date
			PPE is available, appropriate and consistently used
			Cleaning Equipment (mops, brooms) is stored up off the floor
Ц			Eye wash stations are tested (flushed) monthly and test log is posted
Щ			Human food is kept out of animal use areas and lab refrigerators
			Cardboard boxes, including broken glass boxes, are stored off the floor
ye	s no	n/a	Animal Housing Rooms
			Door signage is appropriate E.G. species, disease status, hazards, required PPE
			Emergency contact sheets are current and posted Reference Contact sheets are current and posted
2			Husbandry Records are complete and accurate
			Room temp & humidity levels are recorded and controlled within appropriate limits
			Housekeeping is appropriate, area is generally clean and well-organized
			Animal caging is clean, with appropriate food, water, and enrichment provided.
1 (1994) (1995) 1 (1994) 1 (19			Animals generally appear healthy, sick animals are being promptly reported to vet staff
- (1949) mar			Care staff are aware of special husbandry needs/potential health effects of experiments
and the second s			Cage cards include protocol numbers (if only 1 protocol per room this may be on door)
Ý			Changing hoods are in date

Problem (ago) Studd, White do the f welling to Asic NV or AT welling to Asic NV or AT

IACUC Facility Guide 2016.docx

10.00

Obtained by Rise for Animals. Uploaded 08/20/2020 Retrieved from Animal Research Laboratory Overview (ARLO)

1) Freezen has old contact into, zensre jeff 530 - read to knowl contents in Freidere

.....

O

-	yes	no	/n/a	Procedure Areas (may be separate rooms or part of housing room)
		_ /		Housekeeping is appropriate, area is generally clean and well-organized
		Ź		Lab supplies kept in shared spaces are identified with contact info and are accessible
1,81,8				Controlled substances are locked in secure area, log is up to date and available to view
0% JK				Drugs & pharmaceuticals are current with labels indicating expiration dates
Ś				Materials for survival procedures are current with labels indicating expiration dates
				Materials for terminal procedures are clearly labeled and separated if out-of date $1000000000000000000000000000000000000$
				Anesthesia machines have been calibrated within last 12 months
Son real				F/Air canister weights are regularly recorded: vapor recapture system is functional
not close				CO2 cylinders are secured and have flow meters & instructions for use
				Hoods used for animals are uncluttered and have current certification
				Sharps are properly stored, sharps container is not overfull
;	yes	no	n/a	Storage Rooms
				All items stored up out of direct contact with the floor
1. A A A A A A A A A A A A A A A A A A A	Γ́.			Food stored ~ 4 inches away from contact with walls
~	ф			Food is in-date, any secondary containers clearly labeled with contents and date
	ф			Sanitizing materials stored below eye level, not stored over food
	yes	no	n/a	Cagewash
				Separation between clean and dirty sides
	þ			Temperature strips used appropriately and documented
_				Signage and other safety measures in place
	yes	no	n/a	Office/Breakroom
	Ì			Protocols and SOPs are current and available to view
	ф			Veterinary logs are available and are current and complete
	Ļ			Staff training records are current and available to view
	þ			Emergency plan is current and available to view
	Ц			Water Quality records are current and available to view
_				Autoclave records are current and available to view

IACUC Facility Guide 2016.docx

Page 2 of 2

Inspection Guide
SURGERY SPACE semi-annual IACUC inspections

			preside the some paper to borrely of to all it at	North or that have
yes	no	n/a	Physical aspects of surgery area	
u			Room Air Pressure is positive relative to exte	rior with clean air
			Sanitizable surfaces are present in surgical a	nd prep areas (floors, countertops, cabinets)
			Sanitizing solutions are appropriate for use;	clear labeling indicates fill/mix date
			Sanitizing equipment for instrument prepara	tion available and appropriate for use
			Anesthesia machines have been calibrated w	vithin last 12 months
			F/Air canister weights are regularly recorded;	vapor recapture system is functional
ana a tanàna minina dia kaominina mandri ang kaominina			For major survival surgery on USDA-regulated animals:	For non-major (or nonsurvival) surgery on USDA-regulated animals, OR survival surgery on aquatics, rodents, birds, or agricultural animals:
			Animal & surgeon prep area is entirely outside the dedicated surgical area	Animal prep area is sufficiently separated from surgical area to avoid contamination
			Dedicated surgical area (separate room) with no storage of unrelated supplies. Latitude can be given if space is mixed use (nonsurvival surgery), provided committee has a reasonable expectation that the room is cleaned before use in survival surgery (ie cleaning SOP in use and documented)	Surgical area is a clean uncluttered area, can be within larger mixed-use space. Latitude can be given if committee has a reasonable expectation that the space will be cleaned before use (ie cleaning SOP is in use and documented)
yes	no	n/a	Drugs and medical materials (refer to othe	er docs)
			Pharmaceutical-grade medications are alw for anesthesia, analgesia, emergency, and euth	ays used in live animals (nonsurvival & survival) anasia
			Non-pharm grade drugs are explicitly approv	ved in protocol and mixed under a lab SOP
			Drugs & pharmaceuticals are current with la	bels indicating expiration dates
			Controlled substances are appropriately secu	red and drug log is current & available to view

Packs, surgical materials are sterilized as appropriate before use and stored in a manner to ensure their continued sterility

IACUC Surgery Guide 2016.docx

Page 1 of 2

yes no n/a Surgical monitoring (refer to relevant veterinary policies for further details)

For major surgery (survival OR non-survival) on USDA-regulated animals:

Surgical records provide sufficient detail* (procedure description, monitoring, drugs, treatment, etc) and must be written for each individual, regardless of procedure For non-major surgery ('procedure') on USDAregulated animals, OR survival surgery on aquatics, rodents, or birds: Surgical records provide sufficient detail*

(monitoring, drugs, treatment, etc) and may be written for a group of animals undergoing the same procedure

> Surgical en not being used. Studios

* Please refer to the pertinent All-Campus Policies, Veterinary Standards and any applicable School/College Policies for details.

Questions about Peri-Operative Care:

Pain – Is assessed by what method? At what intervals?

Analgesia - Is used if appropriate? It is delivered at what interval(s)?

Recovering/post-op - How often are animal monitored, for how long, and what are the criteria for recovery?

Sutures or implants - Removed after how many days? Where is this documented?

Sick or poorly recovering animals – What are criteria for reporting an animal to the Vet staff?

Post-op records - Provide details of post-op care (monitoring, analgesia, treatment, etc)? *Check visually

General questions relevant to surgical procedures on live animals:

Do you have a current copy of your protocol here? Do your have documentation that lab members read protocols? (ie a training log?)

Could you walk us through a typical surgery? Can we view your surgical records?

What post-op care and monitoring do you provide? Can we see the records?

If a procedure or surgery did not go well, what would you do? Who would you contact?

Do you keep a surgery log? Do you know, or can you estimate, the rate of adverse outcomes?

Do you have adequate training and veterinary support? How could support be improved?

Is there anything you'd like to ask us, or wish to convey to the committee?

Page 2 of 2



Inspection Guide

F

ť

AQUATICS FACILITY and HOUSING semi-annual IACUC inspections

eye Flush needed. Contact EHS.

yes	no	n/a	Aquatic Facility (general)
Π			Whistle-Blower Policy is posted and current
ф			Surfaces are sanitizable, e.g. no peeling paint, chips, cracks, rust, cloth, unsealed wood
□			Housekeeping is appropriate, area is generally clean and well-organized
			Cleaning Equipment (mops, brooms) is stored off the floor
Ц			Eye wash stations are tested (flushed) weekly and test log is posted
			Human food is kept out of animal use areas and lab refrigerators
ļ			Cardboard boxes, including broken glass boxes, are stored off the floor
			Electrical hazards are eliminated or mitigated
VOC		÷ 1-	
усэ	no	n/a	All Animal Housing
yes []			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments Food is in-date, secondary containers clearly labeled with contents and expiration date*
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments Food is in-date, secondary containers clearly labeled with contents and expiration date* Medications and drugs (MS-222) are pharmaceutical (USP)-grade and in-date
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments Food is in-date, secondary containers clearly labeled with contents and expiration date* Medications and drugs (MS-222) are pharmaceutical (USP)-grade and in-date Enclosures allow for viewing of animals and are not obscured by algal growth
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments Food is in-date, secondary containers clearly labeled with contents and expiration date* Medications and drugs (MS-222) are pharmaceutical (USP)-grade and in-date Enclosures allow for viewing of animals and are not obscured by algal growth Enclosures are sanitized on a regular basis as specified in SOP (≤ 6 months)

* dry flake food expires 3 years from receipt if unopened, 12 months once opened frozen food expires 12 months from receipt if frozen, 1 month once defrosted & refrigerated

IACUC Aquatics Guide 2016.docx

72

Page 1 of 2

The water-quality monitoring parameters below are general guidelines. Individual IACUCs, attending veterinarians, animal-care units, or laboratories may institute alternate monitoring requirements: refer to facility or lab SOPs for specifications.

,

yes	no	n/a	Static Housing (water periodically replaced)
\Box			Temperature (water, room) is recorded DAILY and is within acceptable range for species
þ			pH is recorded WEEKLY and is within acceptable range for species
þ			Ammonia is recorded WEEKLY and prior to water changes to document maximum levels
ф			Nitrite is recorded WEEKLY and prior to water changes to document maximum levels
ф			Chlorine is recorded MONTHLY from source and is within acceptable range for species
ф			Hardness is recorded MONTHLY and is within acceptable range for species
Ļ			Water changes meet minimum required for species and system (e.g. 80-100% per week)
yes	no	n/a	Re-circulating Housing (water is continuously filtered)
			Temperature (water, room) is recorded DAILY and is within acceptable range for species
			pH is recorded WEEKLY and is within acceptable range for species
			Ammonia is recorded WEEKLY and is within acceptable range for species
		Ų	Nitrite is recorded WEEKLY and is within acceptable range for species
			Nitrate is recorded MONTHLY and is within acceptable range for species
			Chlorine is recorded MONTHLY from source and is within acceptable range for species
			Hardness is recorded MONTHLY and is within acceptable range for species
			Dissolved oxygen (dO₂) is recorded MONTHLY and is within acceptable range
			Water changes meet minimum required for species and system (25% per week)
			Filters are changed at regular intervals (\leq 6 months for charcoal, other types per SOP)
yes	no	n/a	Flow-through Housing (water flows freely from source)
			Temperature (water, room) is recorded DAILY and is within acceptable range for species
			pH is recorded WEEKLY and is within acceptable range for species
			Ammonia is recorded MONTHLY and is within acceptable range for species
			Chlorine is recorded MONTHLY from source or tank and is within acceptable range
			Hardness is recorded every 6 MONTHS and is within acceptable range for species
			Dissolved oxygen (dO₂) is recorded MONTHLY and is within acceptable range

IACUC Aquatics Guide 2016.docx

Obtained by Rise for Animals. Uploaded 08/20/2020

Page 2 of 2

.



Inspection Guide

New York

AQUATICS FACILITY and HOUSING semi-annual IACUC inspections



yes	no	n/a	Aquatic Facility (general)
П			Whistle-Blower Policy is posted and current
ф			Surfaces are sanitizable, e.g. no peeling paint, chips, cracks, rust, cloth, unsealed wood
ф			Housekeeping is appropriate, area is generally clean and well-organized
ф			Cleaning Equipment (mops, brooms) is stored off the floor
ф			Eye wash stations are tested (flushed) weekly and test log is posted
Ц			Human food is kept out of animal use areas and lab refrigerators
ф			Cardboard boxes, including broken glass boxes, are stored off the floor
			Electrical hazards are eliminated or mitigated
• • • • •			
yes	no	n/a	All Animal Housing
yes		n/a	All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff
yes		n/a	All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments Food is in-date, secondary containers clearly labeled with contents and expiration date*
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments Food is in-date, secondary containers clearly labeled with contents and expiration date* Medications and drugs (MS-222) are pharmaceutical (USP)-grade and in-date
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments Food is in-date, secondary containers clearly labeled with contents and expiration date* Medications and drugs (MS-222) are pharmaceutical (USP)-grade and in-date Enclosures allow for viewing of animals and are not obscured by algal growth
			All Animal Housing Animals generally appear healthy, sick animals are being promptly reported to vet staff Veterinary contact information current and posted Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments Food is in-date, secondary containers clearly labeled with contents and expiration date* Medications and drugs (MS-222) are pharmaceutical (USP)-grade and in-date Enclosures allow for viewing of animals and are not obscured by algal growth Enclosures are sanitized on a regular basis as specified in SOP (≤ 6 months)

* dry flake food expires 3 years from receipt if unopened, 12 months once opened frozen food expires 12 months from receipt if frozen, 1 month once defrosted & refrigerated

IACUC Aquatics Guide 2016.docx

71

Page 1 of 2

The water-quality monitoring parameters below are general guidelines. Individual IACUCs, attending veterinarians, animal-care units, or laboratories may institute alternate monitoring requirements: refer to facility or lab SOPs for specifications.

yes	no	n/a	Static Housing (water periodically replaced)
Ļ			Temperature (water, room) is recorded DAILY and is within acceptable range for species
ф			pH is recorded WEEKLY and is within acceptable range for species
ф			Ammonia is recorded WEEKLY and prior to water changes to document maximum levels
þ			Nitrite is recorded WEEKLY and prior to water changes to document maximum levels
þ			Chlorine is recorded MONTHLY from source and is within acceptable range for species
þ			Hardness is recorded MONTHLY and is within acceptable range for species
ф			Water changes meet minimum required for species and system (e.g. 80-100% per week)
yes	no	n/a	Re-circulating Housing (water is continuously filtered)
			Temperature (water, room) is recorded DAILY and is within acceptable range for species
			pH is recorded WEEKLY and is within acceptable range for species
			Ammonia is recorded WEEKLY and is within acceptable range for species
			Nitrite is recorded WEEKLY and is within acceptable range for species
			Nitrate is recorded MONTHLY and is within acceptable range for species
			Chlorine is recorded MONTHLY from source and is within acceptable range for species
			Hardness is recorded MONTHLY and is within acceptable range for species
			Dissolved oxygen (dO_2) is recorded MONTHLY and is within acceptable range
			Water changes meet minimum required for species and system (25% per week)
			Filters are changed at regular intervals (≤ 6 months for charcoal, other types per SOP)
yes	no	n/a	Flow-through Housing (water flows freely from source)
			Temperature (water, room) is recorded DAILY and is within acceptable range for species
			pH is recorded WEEKLY and is within acceptable range for species
			Ammonia is recorded MONTHLY and is within acceptable range for species
			Chlorine is recorded MONTHLY from source or tank and is within acceptable range
			Hardness is recorded every 6 MONTHS and is within acceptable range for species
			Dissolved oxygen (dO_2) is recorded MONTHLY and is within acceptable range

IACUC Aquatics Guide 2016.docx

Page 2 of 2

.

Inspection Guide AQUATICS FACILITY and HOUSING semi-annual IACUC inspections

yes no	n/ə	Aquatic Facility (general)
ć 🗆		Whistle-Blower Policy is posted and current
		Surfaces are sanitizable, e.g. no peeling paint, chips, cracks, rust, cloth, unsealed wood
		Housekeeping is appropriate, area is generally clean and well-organized
d D		Cleaning Equipment (mops, brooms) is stored off the floor
9 D		Eye wash stations are tested (flushed) weekly and test log is posted
		Human food is kept out of animal use areas and lab refrigerators
বৃত		Cardboard boxes, including broken glass boxes, are stored off the floor
		Electrical hazards are eliminated or mitigated
yes no	n/a	All Animal Housing
		Animals generally appear healthy, sick animals are being promptly reported to vet staff
		Veterinary contact information current and posted
		Emergency contact sheets are current and posted
		Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate
		Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments
		Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments Food is in-date, secondary containers clearly labeled with contents and expiration date*
		Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments Food is in-date, secondary containers clearly labeled with contents and expiration date* Medications and drugs (MS-222) are pharmaceutical (USP)-grade and in-date
		Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments Food is in-date, secondary containers clearly labeled with contents and expiration date* Medications and drugs (MS-222) are pharmaceutical (USP)-grade and in-date Enclosures allow for viewing of animals and are not obscured by algal growth
		Emergency contact sheets are current and posted Husbandry records reflect daily care (health, feeding) and are complete and accurate Care staff are aware of special husbandry needs/potential health effects of experiments Food is in-date, secondary containers clearly labeled with contents and expiration date* Medications and drugs (MS-222) are pharmaceutical (USP)-grade and in-date Enclosures allow for viewing of animals and are not obscured by algal growth Enclosures are sanitized on a regular basis as specified in SOP (≤ 6 months)

72 * dry flake food expires 3 years from receipt if unopened, 12 months once opened frozen food expires 12 months from receipt if frozen, 1 month once defrosted & refrigerated

IACUC Aquatics Guide 2016.docx

d

Page 1 of 2

Obtained by Rise for Animals. Uploaded 08/20/2020 Retrieved from Animal Research Laboratory Overview (ARLO) The water-quality monitoring parameters below are general guidelines. Individual IACUCs, attending veterinarians, animal-care units, or laboratories may institute alternate monitoring requirements: refer to facility or lab SOPs for specifications.

	yes	no	n/a	Static Housing (water periodically replaced)
	P			Temperature (water, room) is recorded DAILY and is within acceptable range for species
				pH is recorded WEEKLY and is within acceptable range for species
				Ammonia is recorded WEEKLY and prior to water changes to document maximum levels
	C			Nitrite is recorded WEEKLY and prior to water changes to document maximum levels
				Chlorine Is recorded MONTHLY from source and is within acceptable range for species
	2			Hardness is recorded MONTHLY and is within acceptable range for species
	9			Water changes meet minimum required for species and system (e.g. 80-100% per week)
1	yes	по	n/a	Re-circulating Housing (water is continuously filtered)
	9			Temperature (water, room) is recorded DAILY and is within acceptable range for species
	0			pH is recorded WEEKLY and is within acceptable range for species
great	Y			Ammonia is recorded WEEKLY and is within acceptable range for species
J				Nitrite is recorded WEEKLY and is within acceptable range for species
(RCOMOS	0			Nitrate is recorded MONTHLY and is within acceptable range for species
weing		\Box		Chlorine is recorded MONTHLY from source and is within acceptable range for species
100po		\Box		Hardness is recorded MONTHLY and is within acceptable range for species
	0			Dissolved oxygen (dO ₂) is recorded MONTHLY and is within acceptable range
	D		\Box	Water changes meet minimum required for species and system (25% per week)
	Z			Filters are changed at regular intervals (≤ 6 months for charcoal, other types per SOP)
	yes	no	n/a	Flow-through Housing (water flows freely from source)
			I	Temperature (water, room) is recorded DAILY and is within acceptable range for species
			甲	pH is recorded WEEKLY and is within acceptable range for species
			中	Ammonia is recorded MONTHLY and is within acceptable range for species
			中	Chlorine is recorded MONTHLY from source or tank and is within acceptable range
			d.	Hardness is recorded every 6 MONTHS and is within acceptable range for species
				Dissolved oxygen (dO ₂) is recorded MONTHLY and Is within acceptable range

IACUC Aquatics Guide 2016.docx

Page 2 of 2

Obtained by Rise for Animals. Uploaded 08/20/2020 Retrieved from Animal Research Laboratory Overview (ARLO)



2020 LAB

•

			ال.
yes	no	n/a	Record-keeping
	1		Protocols and SOPs are current and available to view - Needs to display
d			Records of anesthesia, surgery, post-op are current and available to view
d)			Contact information for veterinary staff is posted or accessible
ф			Laboratory Training Notebook is current and available to view
yes	по	n/a	General lab care / housekeeping
6			Animal use areas are generally clean and well-organized
Φ			Animal procedure areas are clean with sanitizable surfaces
			Chairs used in procedure areas are sanitizable (not cloth) or have covers
			Animal feed & bedding are stored in closed containers with labels indicating exp. dates
			Dirty cages and dirty bedding are not in procedure areas
q			Sanitizing solutions are appropriate for use; clear labeling indicates mix/fill date
yes	no	n/a	Drugs and anesthesia
ф			Controlled substances are appropriately secured
ф			Controlled substances use log is up to date and available to view
ф			Drugs & pharmaceuticals are current with labels indicating expiration dates
			Anesthesia machines have been calibrated within last 12 months
			F/Air canister weights are regularly recorded; vapor recapture system is functional
			CO ₂ cylinders are secured and have flow meters & instructions for use
			Guillotines are clean and sharp with current log of testing & maintenance

IACUC Lab Guide 2016.docx

Page 1 of 2



yes	no	n/a	Surgery and procedure areas
V			Surfaces are sanitizable and materials needed for sanitation or disinfection are available
Ø			Sanitation schedule is rigorous and performance is documented
Ø			Storage of non-surgical supplies is disallowed in surgery or procedure area
2			Perl-op & post-op care is documented as per PI protocol (see also Recordkeeping)
9			Room temp & humidity levels are recorded and controlled within limits (if applicable)
yes	ņо	n/a	Safety
9			Human food is kept out of lab areas and lab refrigerators
			Hoods used for animals are uncluttered and have current certification
	Ū		Sharps containers are not overfull and discarded needles are not recapped
9			Needles, injection ports and other sharps are properly stored
g			PPE / Personal protection equipment is available, appropriate and used
P			Chemicals used in animals are clearly labeled with expiration dates
0			Eye wash stations are tested (flushed) weekly and test log is posted
0			Cardboard boxes, including broken glass boxes, are stored off the floor
0			Signage for any biological, chemical, radiation or other hazards is posted
			Animal Contact Risk Questionnaire is complete & current for all lab members

Some questions commonly asked by the inspection team (and by USDA or NIH visitors):

- Do you have a copy of your protocol here? Do your lab members read protocols? Documented?
- Could you explain how you euthanize your animals? How do you verify death?
- Do you perform procedures or surgeries? Could you describe these? What is the mortality rate?
- . What kind of post-op care and monitoring do you provide? Can we see the records?
- If a procedure or surgery did not go well, what would you do? Who would you contact?
- Aquatic animals: how do you monitor water quality and temperature? Can we view your records?
- Where do you keep your drugs or controlled substances (used in animals)? Can we see these?
- Do you feel like you have the support you need to do your animal work?
- Is there anything you'd like to ask us or to convey to the committee?

IACUC Lab Guide 2015.docx

Page 2 of 2

Obtained by Rise for Animals. Uploaded 08/20/2020 Retrieved from Animal Research Laboratory Overview (ARLO)

60	6	4
	(actic	2020 LAB
LABORA	TORY	' semi-annual IACUC inspections
And the second		la ca liver maturia Arat an
-		- weaking on hiver analysis. Not on
		plotocol. Should she be?
	n/a	Record-keeping
yes no	n/a	Record-keeping
yes no	n/a	Record-keeping Protocols and SOPs are current and available to view
yes no	n/a	Record-keeping Protocols and SOPs are current and available to view Records of anesthesia, surgery, post-op are current and available to view
yes no	n/a	Record-keeping Protocols and SOPs are current and available to view Records of anesthesia, surgery, post-op are current and available to view Contact information for veterinary staff is posted or accessible
	n/a	Record-keeping Protocols and SOPs are current and available to view Records of anesthesia, surgery, post-op are current and available to view Contact information for veterinary staff is posted or accessible Laboratory Training Notebook is current and available to view
	n/a	Record-keeping Protocols and SOPs are current and available to view Records of anesthesia, surgery, post-op are current and available to view Contact information for veterinary staff is posted or accessible Laboratory Training Notebook is current and available to view
yes no P D P D P D P D P D P D P D P D P D P D	n/a n/a	Record-keeping Protocols and SOPs are current and available to view Records of anesthesia, surgery, post-op are current and available to view Contact information for veterinary staff is posted or accessible Laboratory Training Notebook is current and available to view General lab care / housekeeping
yes no P	n/a	Record-keeping Protocols and SOPs are current and available to view Records of anesthesia, surgery, post-op are current and available to view Contact information for veterinary staff is posted or accessible Laboratory Training Notebook is current and available to view General lab care / housekeeping Animal use areas are generally clean and well-organized

		Chairs used in procedure areas are sanitizable (not cloth) or have covers
--	--	--

11		Animal feed & bedding	g are stored in closed containers with labels indicating exp. date	s
----	--	-----------------------	--	---

	Dirty cages and c	lirty bedding are	not in procedure areas
--	-------------------	-------------------	------------------------

	Sanitizing solutions a	re appropriate for use;	clear labeling indicates	s mix/fill date
--	------------------------	-------------------------	--------------------------	-----------------

yes no n/a Drugs and anesthesia

Controlled substances are appropriately secured

	Controlled substances u	se log is up to	date and available to vie	W
--	-------------------------	-----------------	---------------------------	---

- Drugs & pharmaceuticals are current with labels indicating expiration dates
- Anesthesia machines have been calibrated within last 12 months
 - **F/Air** canister weights are regularly recorded; vapor recapture system is functional
 - **CO**₂ cylinders are secured and have flow meters & instructions for use
 - **Guillotines** are clean and sharp with current log of testing & maintenance

IACUC Lab Guide 2016.docx

Page 1 of 2



yes	no	n/a	Surgery and procedure areas
		· 🗖	Surfaces are sanitizable and materials needed for sanitation or disinfection are available
中			Sanitation schedule is rigorous and performance is documented
Þ			Storage of non-surgical supplies is disallowed in surgery or procedure area
P			Peri-op & post-op care is documented as per PI protocol (see also Recordkeeping)
中			Room temp & humidity levels are recorded and controlled within limits (if applicable)
yes	по	n/a	Safety
			Human food is kept out of lab areas and lab refrigerators
F			Hoods used for animals are uncluttered and have current certification
中			Sharps containers are not overfull and discarded needles are not recapped
Þ			Needles, injection ports and other sharps are properly stored
Þ			PPE / Personal protection equipment is available, appropriate and used
Þ			Chemicals used in animals are clearly labeled with expiration dates
Þ			Eye wash stations are tested (flushed) weekly and test log is posted
中			Cardboard boxes, including broken glass boxes, are stored off the floor
中			Signage for any biological, chemical, radiation or other hazards is posted
			Animal Contact Risk Questionnaire is complete & current for all lab members

Some questions commonly asked by the inspection team (and by USDA or NIH visitors):

- Do you have a copy of your protocol here? Do your lab members read protocols? Documented?
- Could you explain how you euthanize your animals? How do you verify death?
- Do you perform procedures or surgeries? Could you describe these? What is the mortality rate?
- What kind of post-op care and monitoring do you provide? Can we see the records?
- If a procedure or surgery did not go well, what would you do? Who would you contact?
- Aquatic animals: how do you monitor water quality and temperature? Can we view your records?
- Where do you keep your drugs or controlled substances (used in animals)? Can we see these?
- Do you feel like you have the support you need to do your animal work?
- Is there anything you'd like to ask us or to convey to the committee?

IACUC Lab Guide 2016.docx

Page 2 of 2

Obtained by Rise for Animals. Uploaded 08/20/2020 Retrieved from Animal Research Laboratory Overview (ARLO)

Inspectio LABORATORY	on Guide semi-annual IACUC inspections	2020 LAB - ethomol spray - need exp.
4	present	
yes no n/a	Record-keeping	· · · · · · · · · · · · · · · · · · ·
	Protocols and SOPs are current and available to	oview - port hyperter
	Records of anesthesia, surgery, post-op are cur	rent and available to view
	Contact information for veterinary staff is poste	d or accessible
200	Laboratory Training Notebook is current and	available to view
es no n/a	General lab care / housekeeping	
	Animal use areas are generally clean and well-	organized
	Animal procedure areas are clean with sanltiz	able surfaces
	Chairs used in procedure areas are sanitizable (not cloth) or have covers
	Animal feed & bedding are stored in closed co	ontainers with labels indicating exp. dates
	Dirty cages and dirty bedding are not in proceed	lure areas
	Sanitizing solutions are appropriate for use; c	lear labeling indicates mix/fill date
es no n/a	Drugs and anesthesia	
	Controlled substances are appropriately secur	ed= no
	Controlled substances use log is up to date a	and available to view
	Drugs & pharmaceuticals are current with lab	els indicating expiration dates
	Anesthesia machines have been calibrated with	thin last 12 months
	F/Air canister weights are regularly recorded; va	apor recapture system is functional
	CO2 cylinders are secured and have flow meter	s & instructions for use
	Guillotines are clean and sharp with current log	of testing & maintenance



yes	no	n/a	Surgery and procedure areas
4			Surfaces are sanitizable and materials needed for sanitation or disinfection are available
中			Sanitation schedule is rigorous and performance is documented
中			Storage of non-surgical supplies is disallowed in surgery or procedure area
中			Peri-op & post-op care is documented as per PI protocol (see also Recordkeeping)
Ф			Room temp & humidity levels are recorded and controlled within limits (if applicable)
yes	no	n/a	Safety
Ø			Human food is kept out of lab areas and lab refrigerators
P			Hoods used for animals are uncluttered and have current certification
			Sharps containers are not overfull and discarded needles are not recapped
D.			Needles, injection ports and other sharps are properly stored
E			PPE / Personal protection equipment is available, appropriate and used
ц,			Chemicals used in animals are clearly labeled with expiration dates
			Eye wash stations are tested (flushed) weekly and test log is posted
			Cardboard boxes, including broken glass boxes, are stored off the floor
			Signage for any biological, chemical, radiation or other hazards is posted
			Animal Contact Risk Questionnaire is complete & current for all lab members

Some questions commonly asked by the inspection team (and by USDA or NIH visitors):

- Do you have a copy of your protocol here? Do your lab members read protocols? Documented?
- Could you explain how you euthanize your animals? How do you verify death?
- Do you perform procedures or surgeries? Could you describe these? What is the mortality rate?
- . What kind of post-op care and monitoring do you provide? Can we see the records?
- If a procedure or surgery did not go well, what would you do? Who would you contact?
- Aquatic animals: how do you monitor water quality and temperature? Can we view your records?
- Where do you keep your drugs or controlled substances (used in animals)? Can we see these?
- Do you feet like you have the support you need to do your animal work?
- Is there anything you'd like to ask us or to convey to the committee?

IACUC Lab Guide 2016.docx

Page 2 of 2

Obtained by Rise for Animals. Uploaded 08/20/2020 Retrieved from Animal Research Laboratory Overview (ARLO)

2020 LAB

G

Inspection Guide

LABORATORY semi-annual IACUC inspections

Animal Willford - need pscz - uppdare

Ci i

yes	no	n/a	Record-keeping
	1		Protocols and SOPs are current and available to view DSLZ- Approvals need you
D/			Records of anesthesia, surgery, post-op are current and available to view
Ø			Contact information for veterinary staff is posted or accessible
d			Laboratory Training Notebook is current and available to view
yes	по	n/a	General lab care / housekeeping
I			Animal use areas are generally clean and well-organized
φ			Animal procedure areas are clean with sanitizable surfaces
ф			Chairs used in procedure areas are sanitizable (not cloth) or have covers
中			Animal feed & bedding are stored in closed containers with labels indicating exp. dates
中			Dirty cages and dirty bedding are not in procedure areas
山			Sanitizing solutions are appropriate for use; clear labeling indicates mix/fill date
yes	no	n/a	Drugs and anesthesia
9			Controlled substances are appropriately secured
			Controlled substances use log is up to date and available to view
I			Drugs & pharmaceuticals are current with labels indicating expiration dates
Ø			Anesthesia machines have been calibrated within last 12 months
0 0			Anesthesia machines have been calibrated within last 12 months F/Air canister weights are regularly recorded; vapor recapture system is functional
			Anesthesia machines have been calibrated within last 12 months F/Air canister weights are regularly recorded; vapor recapture system is functional CO ₂ cylinders are secured and have flow meters & Instructions for use

IACUC Lab Guide 2016.docx

Page 1 of 2



yes	no	n/a	Surgery and procedure areas
1			Surfaces are sanitizable and materials needed for sanitation or disinfection are available
Ľ			Sanitation schedule is rigorous and performance is documented
Ø			Storage of non-surgical supplies is disallowed in surgery or procedure area
0	口		Peri-op & post-op care is documented as per PI protocol (see also Recordkeeping)
Z			Room temp & humidity levels are recorded and controlled within limits (if applicable)
yes	no	n/a	Safety
T			Human food is kept out of lab areas and lab refrigerators
2			Hoods used for animals are uncluttered and have current certification
0			Sharps containers are not overfull and discarded needles are not recapped
			Needles, injection ports and other sharps are properly stored
e			PPE / Personal protection equipment is available, appropriate and used
			Chemicals used in animals are clearly labeled with expiration dates
			Eye wash stations are tested (flushed) weekly and test log is posted
			Cardboard boxes, including broken glass boxes, are stored off the floor
			Signage for any biological, chemical, radiation or other hazards is posted
			Animal Contact Risk Questionnaire is complete & current for all lab members

Some questions commonly asked by the inspection team (and by USDA or NIH visitors):

- Do you have a copy of your protocol here? Do your lab members read protocols? Documented?
- · Could you explain how you euthanize your animals? How do you verify death?
- Do you perform procedures or surgeries? Could you describe these? What is the mortality rate?
- * What kind of post-op care and monitoring do you provide? Can we see the records?
- . If a procedure or surgery did not go well, what would you do? Who would you contact?
- Aquatic animals: how do you monitor water quality and temperature? Can we view your records?
- Where do you keep your drugs or controlled substances (used in animals)? Can we see these?
- Do you feel like you have the support you need to do your animal work?
- Is there anything you'd like to ask us or to convey to the committee?

IACUC Lab Guide 2016.docx

Page 2 of 2

Obtained by Rise for Animals. Uploaded 08/20/2020 Retrieved from Animal Research Laboratory Overview (ARLO)

LAB